LUCAS LASHER

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EDUCATION

University of Illinois at Urbana-Champaign *Graduation: December 2020*
Bachelor of Science in Mechanical Engineering *Cumulative GPA: 3.35/4.00*

PROFESSIONAL EXPERIENCE

University Housing, University of Illinois **Urbana, Illinois**
Resident Advisor *Fall 2017 – present*

- Apply an educational approach to assist residents in shaping their individual interpretations of success
- Respond in events of life safety, crisis, and other emergencies or significant campus events
- Address the unique needs of underrepresented, international, and individual students and successfully incorporate these students into the residence hall and university communities

Chevron Phillips Chemical **Houston, Texas**
Mechanical Engineering Intern *Summer 2020*

- Introduced mechanical reliability strategies as site transitioned from reactive to proactive maintenance philosophy
- Enacted increased visibility of spare parts and put forth recommendations for smarter equipment maintenance
- Supported additional projects encompassing site-wide initiatives in weld compliance, maintenance quality measures, and various equipment improvements

Illinois Business Consulting **Champaign, Illinois**
Consultant *Fall 2019 – Spring 2020*

- Investigated organizational causes of ineffective risk and issue management for national weapons researcher
- Explored and identified key avenues of new monetization for electronics supplier operating in supply chain SaaS and DaaS spaces

LyondellBasell **Morris, Illinois | Houston, Texas**
Reliability Co-op II, III *Fall 2018 | Summer 2019*

- Planned and implemented Management of Change scopes to extruder cooling systems and die plates to reduce equipment shutdown frequency
- Investigated root causes responsible for reoccurring failure modes in centrifugal pumps
- Established scope of construction of lifting structure to serve high-load hoist equipment
- Oversaw the replacement of obsolete air blowers and addressed maintenance and reliability concerns as new models underwent phase-in

Caterpillar **Champaign, Illinois**
Statistical Tolerance Analysis (STA) Intern *Summer 2018*

- Applied tolerance analysis methods and GD&T standards to identify potential assembly fit-up risks on heavy earthmovers
- Prepared STA simulations to predict real-world assembly failures according to three-sigma metrics
- Presented project reports to customers outlining tolerance analysis results and recommended solutions